1 **WHAT IS CLAIMED IS:**

2 1. A method of generating a bookmark to resolve a desired resource, said method

3 comprising the steps of:

4 storing, as a first portion of said bookmark, a base network address indicative

5 of the location of a first resource; and

6 storing, in respective next portions of said bookmark, at least those user

7 interactions necessary to resolve respective additional resources including a final

8 resource comprising said desired resource.

9

10 2. The method of claim 1, wherein said network addresses comprise uniform

11 resource locators (URLs).

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13 3. The method of claim 1, wherein said user interactions comprise at least one of

14 resource selections, line data, pointing device selections and keyboard data.

15

16 4. The method of claim 1, wherein said bookmark includes a display window size

17 identifier.

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19 5. The method of claim 4, wherein user interactions comprising pointing device

20 selections have associated with them pixel positions within said display window.

21

22 6. The method of claim 1, wherein user interactions comprising pointing device

23 selections are defined in terms of pixel coordinates.

24

25 7. The method of claim 1, further comprising the step of:

26 adapting parameters of a user profile in response to said user interactions.

27

28 8. The method of claim 1, wherein each of said iteratively stored user interactions

29 are stored in respective chain stack records, said book mark comprising a linked list of

30 said chain stack records.

31

32 9. The method of claim 8, wherein said user may reset said list of chain stack

33 records.

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1   10.   A method for generating a chained network address, comprising the steps of:

2   storing, in a base network address field, a first selected network address; and

3   iteratively storing, as a sequence of records, a respective sequence of executed

4   selections, each of the executed selections operating to modify a resolved resource

5   associated with a respective preceding record.

6

7   11.   The method of claim 10, wherein the executed selections are formed by

8   storing, for each resolved resource, user input resulting in the transmission of data to a

9   server.

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11   12.   The method of claim 10, wherein the executed selections are formed by

12   storing, for each resolved resource, user input resulting in the transmission of data to

13   an applet.

14

15   13.   The method of claim 10, wherein the sequence of records is adapted to form a

16   linked list.

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18   14.   The method of claim 10, further comprising the step of:

19   replacing the first selected network address within the base network address

20   field with a network address embedded within a presently resolved resource.

21

22   15.   The method of claim 10, wherein said network address comprises a uniform

23   resource locator (URL).

24

25   16.   A method, comprising the steps of:

26   defining, for each executable selection made by a browser user, a network

27   address chain stack record including at least a first field for storing the network

28   address of a currently retrieved resource, and a second field for storing user input

29   modifying the currently retrieved resource;

30   linking each network address chain record to a respective next network address

31   chain record to form a linked list of network address chain records; and

associating the linked list of chain records with a chain header record, the
chain header record including a first field for storing a base network address and a
second field for storing the chain records.

17.   The method of claim 16, further comprising the step of:
storing, in a third field of each network address chain record, a parameter
indicative of an appropriate display window size.

18.   The method of claim 16, wherein said chain network address comprises a
chain uniform resource locator (URL) address.

19.   The method of claim 16, further comprising the steps of:
monitoring each of a plurality of user interactions associated with the retrieved
resource; and
storing each user interaction causing a modification of the retrieved resource.

20.   The method of claim 19, wherein a sequence of stored user interactions
represents those user interactions necessary to resolve a desired resource.

21.   A method for use in a browser program, the method comprising the steps of:
storing, for each user manipulation of a currently retrieved resource, data
indicative of such user manipulation; and
combining a network address of a base resource and at least one data structure
indicative of user manipulation of said base resource to form a compound network
address, said compound network address suitable for retrieving a resource according
to the stored user manipulations.

22.   The method of claim 21, wherein said network addresses comprise uniform
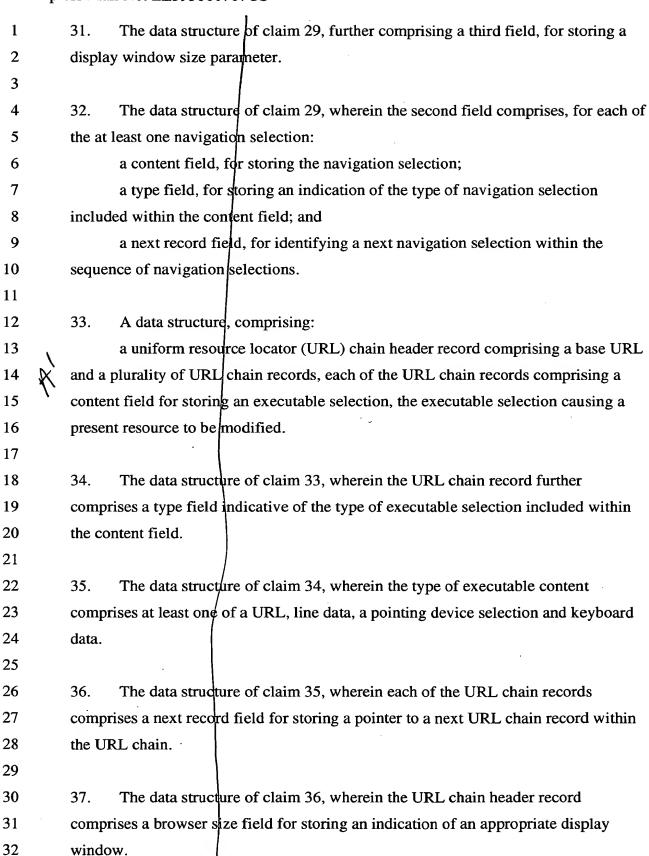resource locators (URLs).

23.   The method of claim 21, wherein said user manipulations comprise at least one
of resource selections, line data pointing device selections and keyboard data.

23

1   24.   The method of claim 23, wherein user manipulations comprising pointing

2   device selections are defined in terms of pixel coordinates.

3

4   25.   A uniform resource locator (URL), comprising:

5   a base URL and a sequence of executable selections;

6   the base URL defining a location of a resource to be retrieved;

7   the sequence of executable selections defining a respective sequence of

8   navigation selections to be executed, each of the sequence of selections being

9   executed after a sequentially preceding selection has been executed.

10

11   26.   The URL of claim 25, wherein the navigation selection comprises at least one

12   of a URL, line data, a pointing device selection and keyboard data.

13

14   27.   The URL of claim 25, further comprising a browser size field, for storing a

15   display window size parameter.

16

17   28.   The URL of claim 25, wherein the selection field comprises, for each of the at

18   least one navigation selection:

19   a content field, for storing the navigation selection;

20   a type field, for storing an indication of the type of navigation selection

21   included within the content field; and

22   a next record field, for identifying a next navigation selection within the

23   sequence of navigation selections.

24

25   29.   A data structure, comprising:

26   a first field, for storing the address of a base resource; and

27   a second field, for storing at least one navigation selection;

28   the at least one navigation selection operable to modify the addressed resource,

29   the first and second fields storing data providing a sequence of navigation selections.

30

31   30.   The data structure of claim 29, wherein the navigation selection comprises at

32   least one of a URL, line data, mouse data or keyboard data.

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31. The data structure of claim 29, further comprising a third field, for storing a display window size parameter.

32. The data structure of claim 29, wherein the second field comprises, for each of the at least one navigation selection:

a content field, for storing the navigation selection;

a type field, for storing an indication of the type of navigation selection included within the content field; and

a next record field, for identifying a next navigation selection within the sequence of navigation selections.

33. A data structure, comprising:

a uniform resource locator (URL) chain header record comprising a base URL and a plurality of URL chain records, each of the URL chain records comprising a content field for storing an executable selection, the executable selection causing a present resource to be modified.

34. The data structure of claim 33, wherein the URL chain record further comprises a type field indicative of the type of executable selection included within the content field.

35. The data structure of claim 34, wherein the type of executable content comprises at least one of a URL, line data, a pointing device selection and keyboard data.

36. The data structure of claim 35, wherein each of the URL chain records comprises a next record field for storing a pointer to a next URL chain record within the URL chain.

37. The data structure of claim 36, wherein the URL chain header record comprises a browser size field for storing an indication of an appropriate display window.

1   38.   A computer readable medium storing a software program that, when executed

2   by a processor, performs a method comprising the steps of:

3   storing, as a first portion of said bookmark, a base network address indicative

4   of the location of a first resource; and

5   storing, in respective next portions of said bookmark, at least those user

6   interactions necessary to resolve respective additional resources including a final

7   resource comprising said desired resource.

8

9   39.   The method of claim 38, wherein said network addresses comprise uniform

10   resource locators (URLs).

11

12   40.   The method of claim 38, wherein said user interactions comprise at least one

13   of resource selections, line data, pointing device selections and keyboard data.

14

15   41.   The method of claim 38, wherein said bookmark includes a display window

16   size identifier.

17

18   42.   The method of claim 41, wherein user interactions comprising pointing device

19   selections have associated with them pixel positions within said display window.

20

21   43.   The method of claim 38, wherein user interactions comprising pointing device

22   selections are defined in terms of pixel coordinates.

23

24   44.   The method of claim 38, further comprising the step of:

25   adapting parameters of a user profile in response to said user interactions.

26

27   45.   The method of claim 38, wherein each of said iteratively stored user

28   interactions are stored in respective chain stack records, said book mark comprising a

29   linked list of said chain stack records.

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31   46.   The method of claim 45, wherein said user may reset said list of chain stack

32   records.

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